

**WHAT IS CLAIMED IS:**

1           1. A method of enhancing data delivery comprising:

2           sending a first packet from a client interface to a  
3 remote terminal at a first time;

4           receiving at the client interface a second packet from  
5 the remote terminal at a second time;

6           determining a response time of the remote terminal at the  
7 client interface based on a time period between the first time  
8 and the second time;

9           using said response time to determine information related  
10 to a connection speed between the remote terminal and the  
11 client interface;

12           providing a plurality of different content versions, each  
13 having a different amount of information, each content version  
14 being optimized for a specific connection speed;

15           based on said determined connection speed, automatically  
16 selecting a content version from said plurality of content  
17 versions; and

18           providing the remote terminal with the selected content  
19 version.

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21           2. The method of Claim 1, further comprising  
22 determining a data flow rate from the determined response time

23 of the remote terminal, and wherein the determining the  
24 response time comprises:

25 starting a timer at the first time when the client  
26 interface sends the first packet to the remote terminal; and  
27 stopping the timer at the second time when the client  
28 interface receives the second acknowledgement packet from the  
29 remote terminal.

30  
31 3. The method of Claim 1, further comprising determining  
32 network congestion based on the determined response time.

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34 4. The method of Claim 1, further comprising  
35 determining the response time based on a timing of a handshake  
36 between the remote terminal and the client interface.

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38 5. The method of Claim 1, wherein selecting the  
39 destination address from a plurality of addresses is based on  
40 a requested address by the remote terminal and the determined  
41 response time.

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43  
44 6. A method of connecting a remote terminal to a server  
45 comprising:

46           sending a first packet from a client interface to the  
47       remote terminal;

48           receiving at the client interface a second packet from  
49       the remote terminal;

50           determining a response time of the remote terminal at the  
51       client interface based on a time period elapsing between the  
52       first packet being sent and the second packet being received;

53           using said response time to determine a connection speed  
54       between the remote terminal and the client interface;

55           providing a plurality of content versions, each content  
56       version having a different amount of information at a server  
57       coupled to the client interface, each content version being  
58       optimized for a specific connection speed;

59           receiving a request for content;

60           based on said connection speed, selecting a version  
61       corresponding to the request; and

62           communicating data indicating the selected version to the  
63       remote terminal.

64  
65           7.    The method of Claim 6, further comprising  
66       determining a data flow rate from the remote terminal based on  
67       the response time.

69           8.    The method of Claim 6, wherein the requested  
70   destination address includes a main destination address and a  
71   plurality of sub-addresses, each of said sub-addresses  
72   corresponding to a connection speed and optimized for a said  
73   connection speed.

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75           9.    The method of Claim 6, further comprising  
76   determining a network congestion based on the determined  
77   response time.

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79           10.   The method of Claim 6, further comprising connecting  
80   the remote terminal to the selected destination address.

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82           11.   An apparatus, including instructions residing on a  
83   machine-readable storage medium, for use in a machine-based  
84   system to handle a plurality of instructions, the instructions  
85   causing the machine system to:

86                send a first packet from a client interface to the remote  
87   terminal;

88                receive at the client interface a second packet from the  
89   remote terminal;

90                determine a response time of the remote terminal at the  
91   client interface based on a time period between the first  
92   packet being sent and the second packet being received;

93           use said response time to determine a connection speed  
94       between the remote terminal and the client interface;

95           access a plurality of content versions, each content  
96       version having a different amount of content, and each content  
97       version being optimized for a specific connection speed;

98           receive a request for content;

99           based on said determined connection speed, select a  
100       content version corresponding to the request; and

101          communicate the selected version to the remote terminal.  
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103           12. The apparatus of Claim 11, wherein the instructions  
104       further cause the machine system to connect the remote  
105       terminal to the selected destination address.  
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107           13. The apparatus of Claim 11, wherein the response time  
108       includes effects for network congestion.  
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110           14. The apparatus of Claim 11, wherein the response time  
111       is determined based on the timing of a handshake between the  
112       remote terminal and the client interface.